

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference FP05013	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/KR 2005/000944	(Earliest) Priority Date (<i>day/month/year</i>) 31 March 2004 (31.03.2004)	International filing date (<i>day/month/year</i>) 31 March 2005 (31.03.2005)
Applicant LG ELECTRONICS INC.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see continuation of this first sheet.

2. ☐ Certain claims were found unsearchable (see continuation of this first sheet)

3. ☐ Unity of invention is lacking (see continuation of this first sheet)

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in the continuation of this first sheet. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 11

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☒ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.



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Continuation of first sheet

Continuation No. IV:

Text of the abstract

(Continuation of item 5 of the first sheet)

The present invention discloses a data transmission and receiving method at a data link layer for use in a home network system based on a living network control protocol. The data receiving method at the data link layer of a protocol that consists of a physical layer, a data link layer, and an upper layer, includes the steps of: receiving data from the physical layer; storing the received data in a packet buffer (S52); deciding whether new data has been received within a predetermined data allowable interval time since last data is received (S53); and based on a result of the first decision, completing receiving the data (S54).

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A. CLASSIFICATION OF SUBJECT MATTER

IPC⁷: H04L12/56, 29/06, 29/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷: H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EPODOC, WPI, XPESP, XPIEE, XPI3E, XPRD

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	COMER, Douglas E. Computernetworks and Internets 2nd edition. Prentice Hall, 2000, ISBN 3-8273-7012-4 <i>chapters 7.7-7.9, 14.10.5.</i>	1-57
Y	US 6519223 B1 (WAGNER et al.) 11 February 2003 (11.02.2003) <i>parags 11, 28.</i>	1-57

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
22 August 2005 (22.08.2005)Date of mailing of the international search report
13 September 2005 (13.09.2005)Name and mailing address of the ISA/ AT
Austrian Patent Office
Dresdner Straße 87, A-1200 ViennaAuthorized officer
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR 2005/000944

Patent document cited in search report			Publication date		Patent family member(s)	Publication date
A					none	
US	A	6519223			CN A 1512702	2004-07-14
					CN A 1354930	2002-06-19
					WO A1 0060799	2000-10-12
					JP T 2002541727T	2002-12-03
					EP A1 1166486	2002-01-02
					CA A1 2368770	2000-10-12